

THAT WHICH IS CLAIMED IS:

1. An audio communication code comprising:

a leader tone having a sound tone at a selected frequency, said leader tone having a first time interval;

a start symbol following said leader tone having a predetermined sequence of sound tones, said start symbol being indicative of a plurality of data symbols to follow;

a plurality of data symbols following said start symbol having a plurality of sound tone sets the frequencies of said sound tones in each sound tone set defining data corresponding to the data in its respective sound tone set,

said leader tone frequency being used to determine a frequency offset of said leader tone from said selected frequency which is then applied to said start symbol and said data symbols as a frequency correction.

2. The audio communication code set forth in claim 1 wherein said predetermined sequence of sound tones in said start symbol is not used for any data symbol.

3. The audio communication code set forth in claim 2 wherein each of said data symbols define a predetermined interval equal to all other data symbol intervals.

4. The audio communication code set forth in claim 3 wherein said start symbol defines a start symbol interval greater than said data symbol interval.

5. The audio communication code set forth in claim 4 wherein said first time interval of said leader tone exceeds said start symbol interval.

6. The audio communication code set forth in claim 5 wherein said tones used in said leader tone, said start symbol and said data symbols are audible frequency tones.

7. An audio communication code method comprising the steps of:

forming a leader tone having a sound tone at a selected frequency, said leader tone having a first time interval;

forming a start symbol following said leader tone having a predetermined sequence of sound tones, said start symbol being indicative of a plurality of data symbols to follow;

forming a plurality of data symbols following said start symbol having a plurality of sound tone sets the frequencies of said sound tones in each sound tone set defining data corresponding to the data in its respective sound tone set,

said leader tone frequency being used to determine a frequency offset of said leader tone from said selected frequency which is then applied to said start symbol and said data symbols as a frequency correction;

converting said leader tone, said start symbol and said plurality of data symbols to sound energy;

receiving said sound energy at a receiver and converting it to electrical signal;

detecting the frequency of said leader tone as received and converted;

determining the frequency offset of said detected frequency from said selected frequency;

offsetting said tones of said start symbol and said plurality of data symbols by said frequency offset; and

decoding said data symbols having said frequency offset to recover said data.

8. The audio communication code set forth in claim 7 wherein said predetermined sequence of sound tones in said start symbol is not used for any data symbol.

9. The audio communication code set forth in claim 8 wherein each of said data symbols define a predetermined interval equal to all other data symbol intervals.

10. The audio communication code set forth in claim 9 wherein said start symbol defines a start symbol interval greater than said data symbol interval.

11. The audio communication code set forth in claim 10 wherein said first time interval of said leader tone exceeds said start symbol interval.

12. The audio communication code set forth in claim 11 wherein said tones used in said leader tone, said start symbol and said data symbols are audible frequency tones.